

Title (en)

A method and circuit for processing pulses in pulse pile-up situations.

Title (de)

Verfahren und Schaltung zur Verarbeitung von dicht aufeinander folgenden Impulsen.

Title (fr)

Méthode et circuit pour le traitement d'impulsions dans les cas de superposition d'impulsions.

Publication

EP 0166169 A2 19860102 (DE)

Application

EP 85106029 A 19850515

Priority

US 6148884 A 19840529

Abstract (en)

A method and circuit for processing pulses in pulse pile-up situations, wherein each pulse is sampled with a second frequency which is a subfrequency of a first frequency. The start time of sampling is measured dependent on the first and second frequencies. Also the number of samples is stored. Furthermore, the start time of a pile-up pulse is measured dependent on the first and second frequencies. Finally, each pulse to be processed preceding a pile-up pulse is corrected by adding remaining tail samples dependent on the start time of sampling, the stored number of samples of the pulse until the last sample prior to the occurrence of a pile-up pulse and the stored number of samples of a previously sampled pulse and each pile-up pulse is corrected by subtracting the tail samples added to the preceding pulse dependent on the measured start time of the pile-up pulse, the number of samples of the pile-up pulse and the number of samples of the preceding pulse prior to the starting time of the pile-up pulse.

IPC 1-7

G01T 1/17

IPC 8 full level

G01T 1/164 (2006.01); **G01T 1/17** (2006.01); **H03K 5/1252** (2006.01)

CPC (source: EP)

G01T 1/17 (2013.01)

Cited by

EP0424651A1; EP1237014A1; US5210423A; US7894576B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0166169 A2 19860102; EP 0166169 A3 19860108; EP 0166169 B1 19890906; DE 3572869 D1 19891012; DK 235285 A 19851130; DK 235285 D0 19850528; JP S6139618 A 19860225

DOCDB simple family (application)

EP 85106029 A 19850515; DE 3572869 T 19850515; DK 235285 A 19850528; JP 11519885 A 19850528